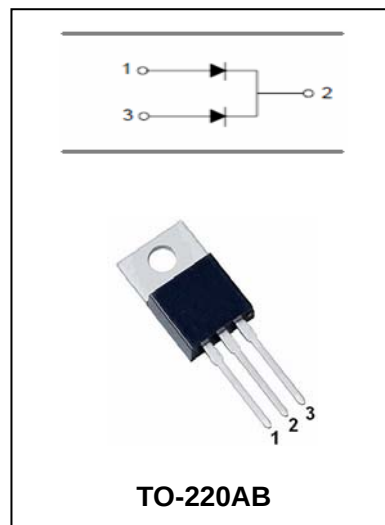


Super Fast Rectifier

MUR1005CT-MUR1060CT

FEATURES

- Low Cost.
- Low Leakage.
- Low Forward Voltage Drop.
- High Current Capability.
- Easily Cleaned With Alcohol, Isopropanol and Similar Solvents.
- The Plastic material carries U/L Recognition 94V-0.



MAXIMUM RATING operating temperature range applies unless otherwise specified

Symbol	Parameter	MUR 1005 CT	MUR 1010 CT	MUR 1015 CT	MUR 1020 CT	MUR 1030 CT	MUR 1040 CT	MUR 1060 CT	Unit
V_{RRM}	Recurrent Peak Voltage	50	100	150	200	300	400	600	V
V_{RMS}	RMS Voltage	35	70	105	140	210	280	420	V
V_{DC}	DC Blocking Voltage	50	100	150	200	300	400	600	V
$I_{F(AV)}$	Average Forward Rectified Current @ $T_A=100^\circ\text{C}$	10							A
I_{FSM}	Peak Forward Surge Current 8.3ms Single Half-Sine-wave Superimposed on Rated Load	150.0							A
T_j T_{stg}	Operating Junction and Storage Temperature Range	-55 to +150							$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Test conditions	MAX			UNIT
			MUR1005CT-MUR1020CT	MUR1030CT-MUR1040CT	MUR 1060CT	
Reverse Current	I_R	$V_R=V_{RRM}, T_A=25^\circ\text{C}$ $V_R=V_{RRM}, T_A=150^\circ\text{C}$	10 500			μA
Forward Voltage	V_F	$I_F=5\text{A}$	0.95	1.30	1.50	V
Reverse Recover Time	t_{rr}	$I_F=0.5\text{A}, I_R=1\text{A},$ $I_{rr}=0.25\text{A}$	35	50		ns

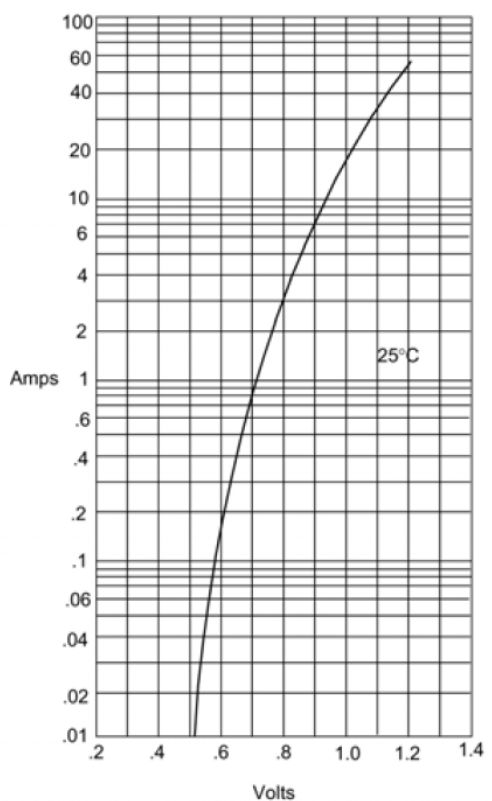


Super Fast Rectifier

MUR1005CT-MUR1060CT

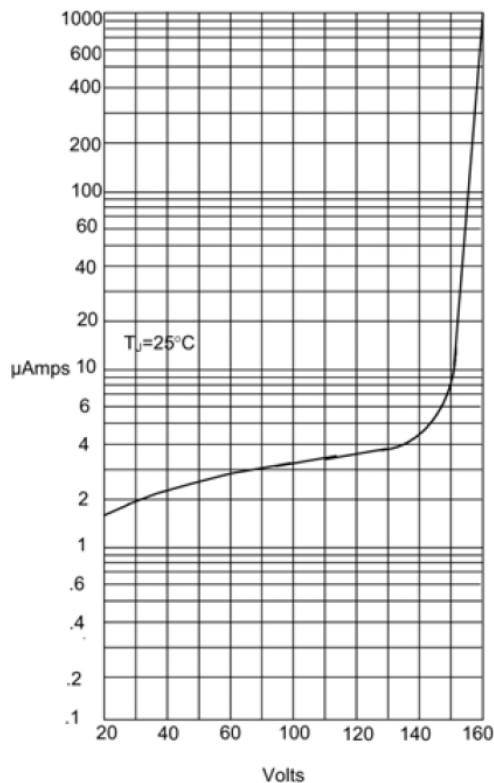
TYPICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified

Figure 1
Typical Forward Characteristics



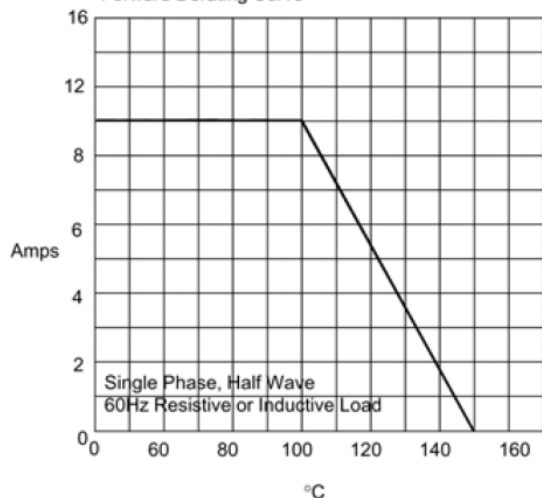
Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts

Figure 2
Typical Reverse Characteristics



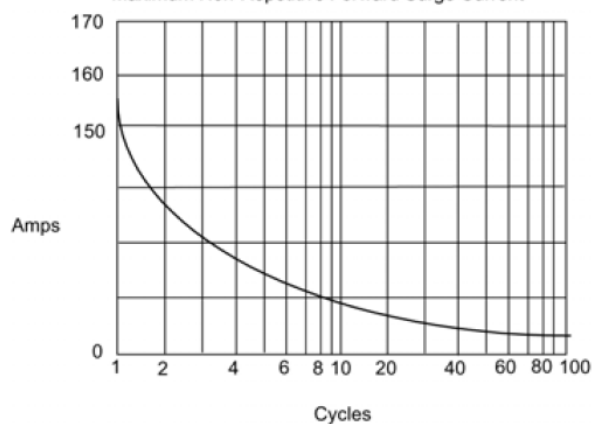
Instantaneous Reverse Leakage Current - MicroAmperes versus
Percent Of Rated Peak Reverse Voltage - Volts

Figure 3
Forward Derating Curve



Average Forward Rectified Current - Amperes versus
Case Temperature - $^\circ\text{C}$

Figure 4
Maximum Non-Repetitive Forward Surge Current



Peak Forward Surge Current - Amperes versus
Number Of Cycles At 60Hz - Cycles

Super Fast Rectifier

MUR1005CT-MUR1060CT

PACKAGE OUTLINE

Plastic surface mounted package

TO-220AB

